DPM 72 x 144 - 1 Phase 4 ½ DIGIT ACI/ACV

Operating Manual

The **DPM 72 x 144 – 1 Phase 4** ½ **ACI/ACV** is a Digital Panel Meter (DPM) in 72 x 144 size for measurement of AC Voltage and AC Current. Five ranges for power supply are available.

Operation:

By changing short links decimal point can be adjusted as shown in sticker on page 2. The full scale value on the display can be adjusted on site with potentiometer at the rear side of the instrument from 10% to 100% of FSD (FSD = 19999). If required zero can be adjusted with the help of zero adjustment potentiometer at the rear side.

Further DPM 72x144 – 1 Phase 4 ½ ACI/ACV version from the series : DPM 72 x 144 – 4 ½ ADC/VDC Instrument for DC Current and DC Voltage measurement.

Technical data Display	Display range	19999
	Decimal point position Negative display indication	selectable by short links at the Rear side.
	Digit height	26 mm / 7- segment digits
	Overload indication	last 4 digits blank (1).
Measuring ranges	A	
(Max overload 20% of Full scale range value)	Accuracy	< 1 % of range ± 1 digit (Optional: 0.5% of range ± 1 digit))
	Voltage AC	0110 V or (4565 Hz) or 400 Hz
		0240 V or (4565 Hz) or 400 Hz 0500 V (4565 Hz) or 400 Hz
	Nominal Input Voltage Burden CurrentAC	< 0.3VA approx.
	CurrentAC	01 A or (4565 Hz) or 400 Hz 05 A (4565 Hz) or 400 Hz
	Nominal Input Current Burden	< 0.2VA approx.
	Temperature coefficient	300 ppm / °C Plus
	Zero point drift	200 ppm / °C.
	Range adjustment span	from 10% to 100% of range.
Power supply	Direct voltage DC	24 V DC (+/-15%) / 110V DC (+10% / -15%) 220V DC (+10% / -15%)
	VA Burden	5.5 W approx. (Isolated)
	Alternating voltage AC	110 V AC(+10 % / -15%) / 230V AC (+10 % / -15%)
	VA Burden	5.5VA approx. (Isolated)
	Frequency	47 - 60 Hz
Environmental conditions	Climatic class	Class 2 to VDE / DIN 3540.
	Operating temperature	0 55 ℃.
	Storage temperature	-25 °C +65 °C.
	Safety class IP Protection	II to IEC 348 / VDE 0411. IEC EN 60 529.
	IF FIOLECIION	For Back : IP 20.
		Front : IP 50 (IP 54 on request)
	Device safety	According to IEC EN 61 010.
	High Voltage Test	For AC Aux. : 2 kV AC, 50 Hz for 1 minute.
		For DC Aux. : 1 kV AC, 50 Hz for 1 minute.
	EMC immunity	According to IEC / EN 61 000-4-1 up to 4.
	EMC radiated interference	According to IEC / EN 61326 class B.
Dimensions and weights	Front bezel size	72 mm x 144 mm DIN 43 700.
	Panel cut-out	68 + 0.7 mm x 138 + 1.0 mm.
	Overall depth	94 mm.
	Weight Approx.	approx. 500 gm.
Sundry	Connections	Plug and screw terminal blocks.

